

FIG.1
100

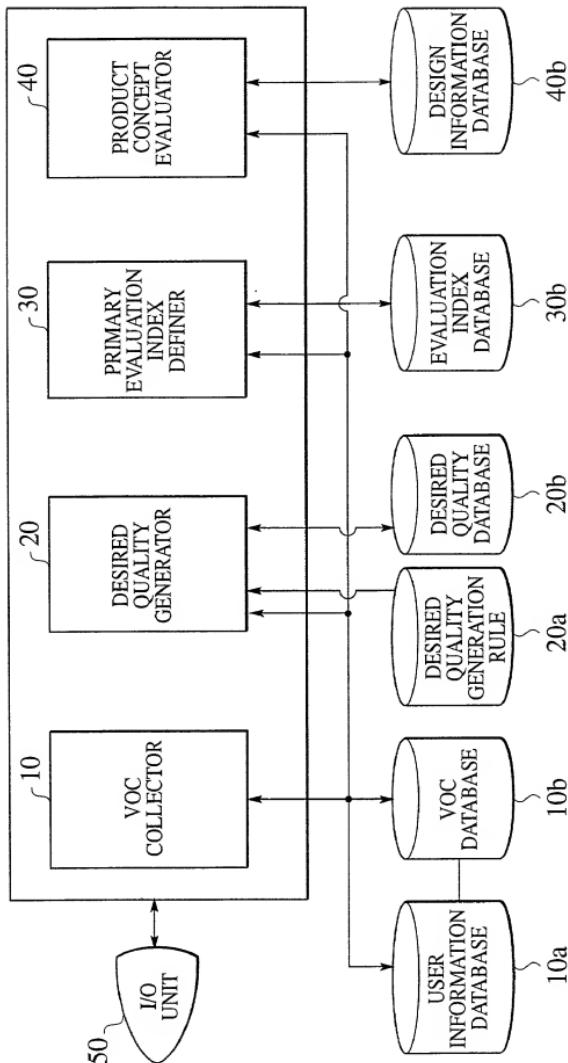


FIG.2

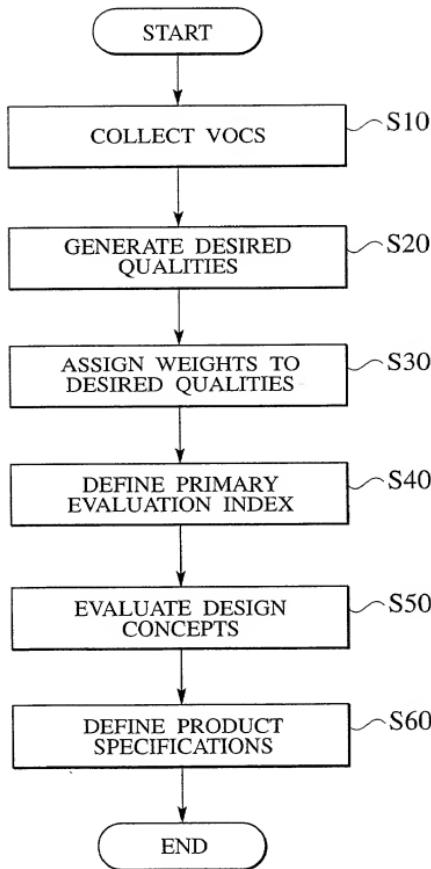


FIG.3

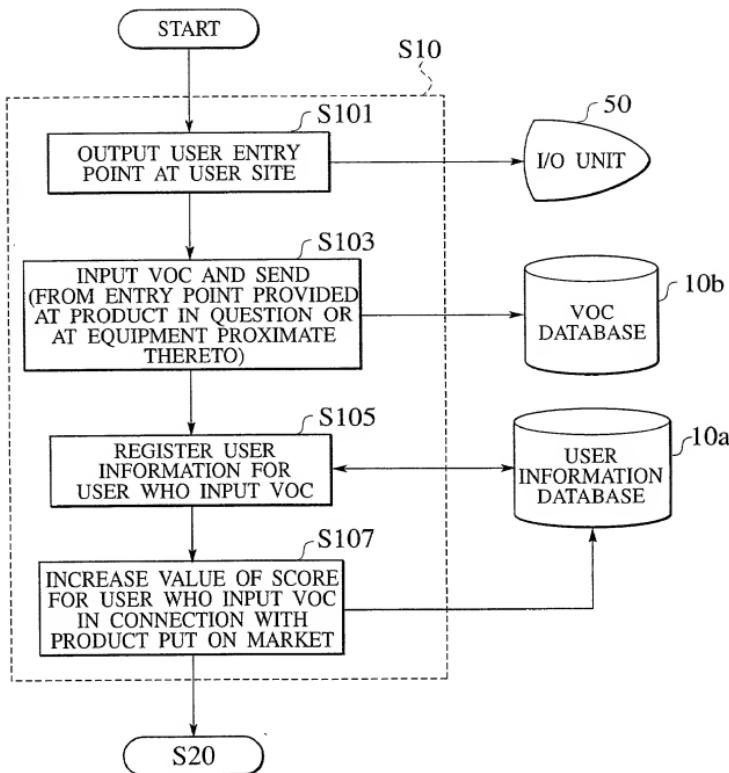


FIG.4

T00520 - E00387560

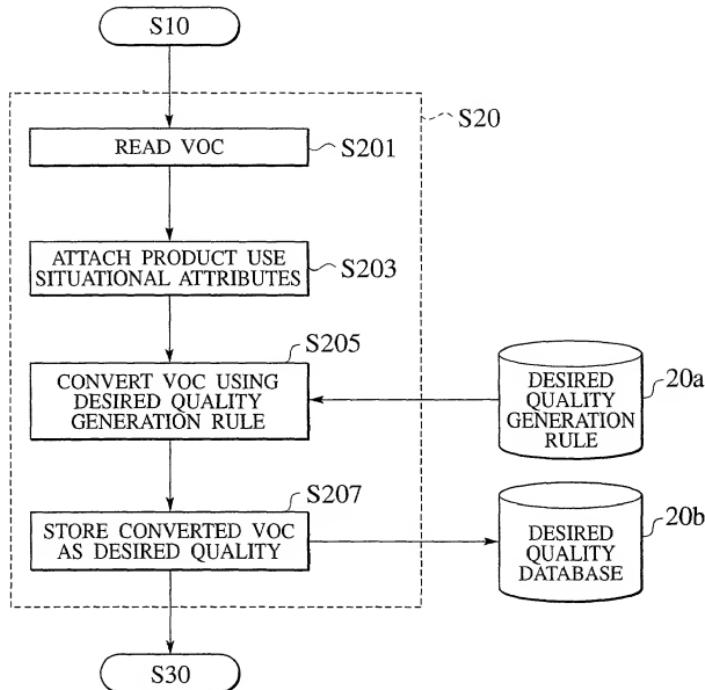


FIG.5

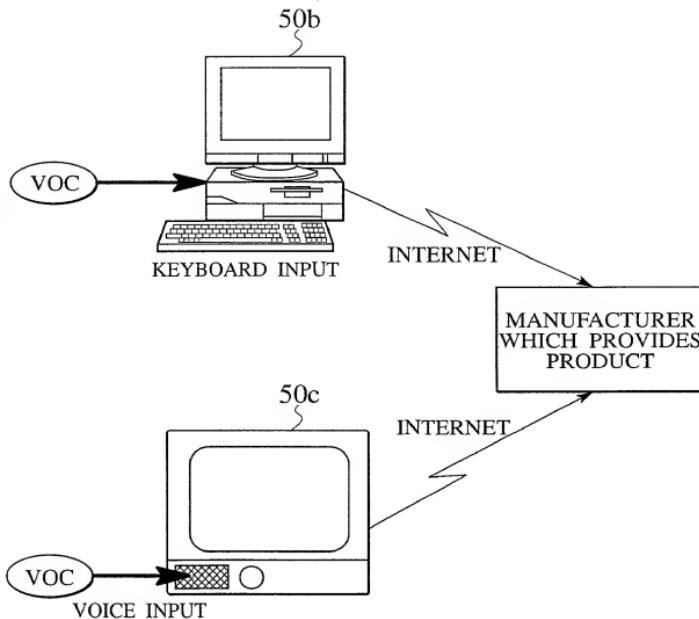


FIG.6

TOEFL® TESTERS

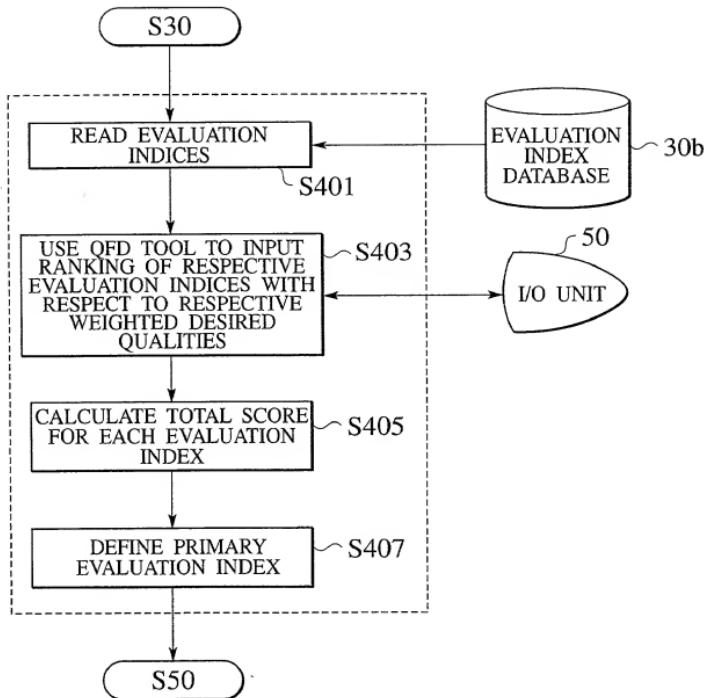


FIG. 7

DESIRABLE QUALITIES	WEIGHT	EVALUATION INDICES				
		Better	1	2	3	4
Worse						
SOFTWARE DEVELOPMENT IS EASY	4.55					
CAPABLE OF HIGH-SPEED DATA TRANSFER WITHIN SET	5.45					
CAPABLE OF HIGH-SPEED IMAGE PROCESSING	7.27					
CAPABLE OF HIGH-SPEED COMMUNICATION WITH SET EXTERIOR	3.64	9	3			
CAN BE USED WITH CONFIDENCE	10.00	9				
ALLOWS FOR EASY IMPROVEMENT OF FUNCTIONALITY IN FUTURE MODELS	8.18	9				
CONSUMES LITTLE ELECTRICAL POWER	1.00					
SCORE	74	90	38	27	71	107
NORMALIZED SCORE	0.18	0.22	0.09	0.07	0.17	0.26

FIG.8

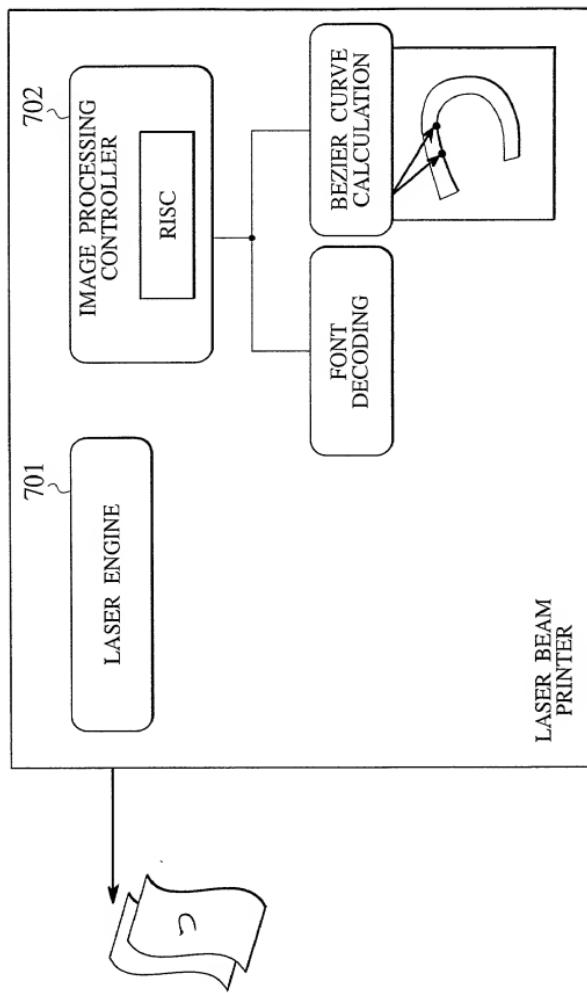


FIG. 9

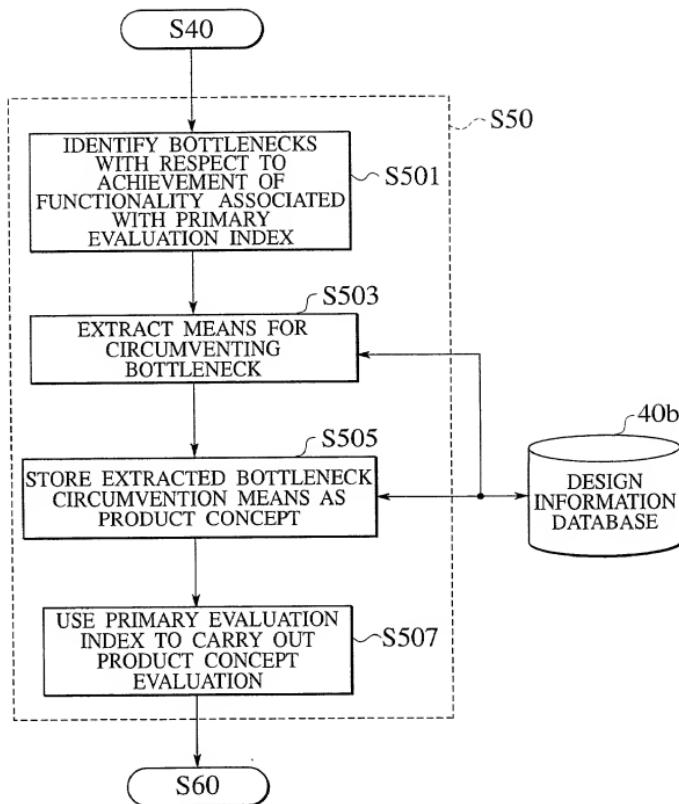


FIG.10A

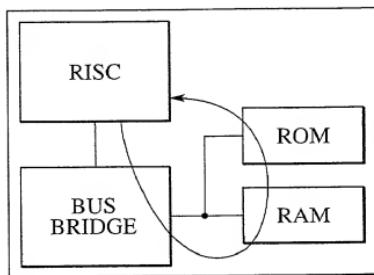


FIG.10B

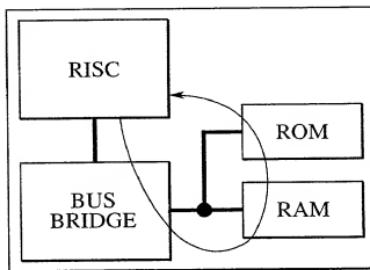


FIG.10C

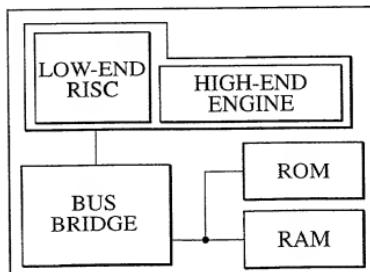


FIG.11

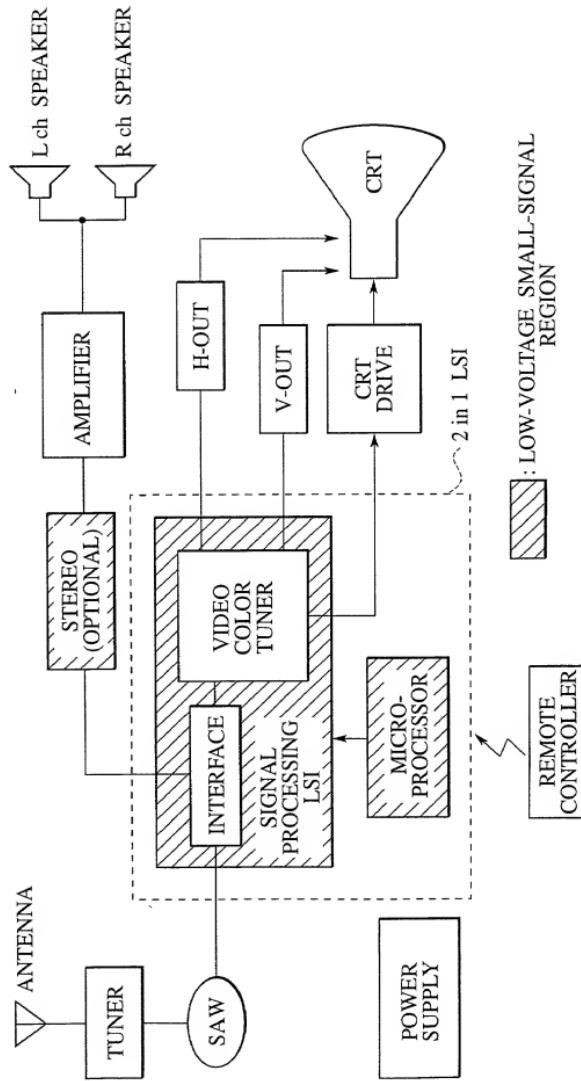


FIG.12

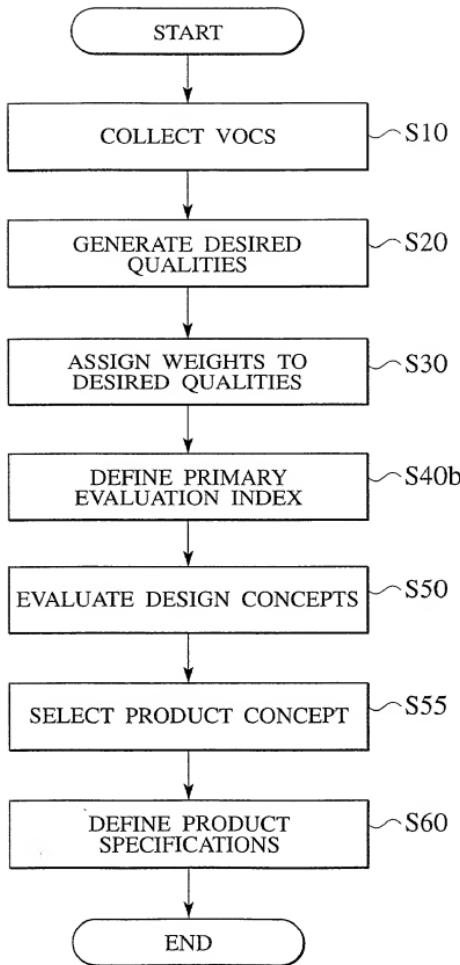
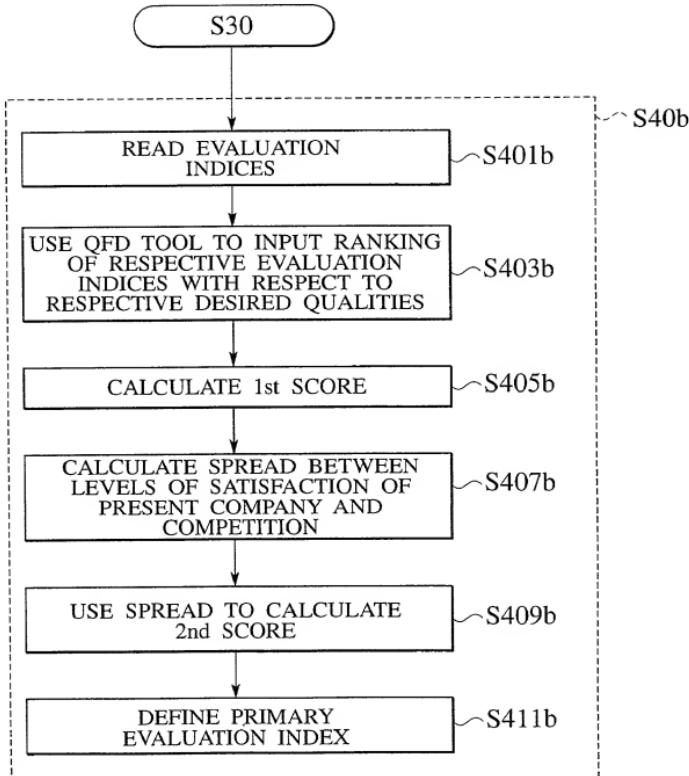


FIG.13



Evaluation
indices

Design cost of chip	9	9	3	9	9	9	9	9	9	9	57	0.05
Design cost of set	9	9	3	9	9	9	9	9	9	9	63	0.06
TV adjustment time	7	7	7	7	7	7	7	7	7	7	84	0.08
Electrical power consumption (Watts)	7	7	7	7	7	7	7	7	7	7	36	0.03
OSD font (X • Y)	7	7	7	7	7	7	7	7	7	7	36	0.03
I/O pins	7	7	7	7	7	7	7	7	7	7	36	0.03
Memory capacity (kB)	7	7	7	7	7	7	7	7	7	7	36	0.03
Microprocessor noise interference (dB)	7	7	7	7	7	7	7	7	7	7	30	0.03
External parts count	7	7	7	7	7	7	7	7	7	7	63	0.06
ROM replacement time (programming)	7	7	7	7	7	7	7	7	7	7	63	0.06
Software development cost	7	7	7	7	7	7	7	7	7	7	63	0.06
Diagnostic cost	7	7	7	7	7	7	7	7	7	7	21	0.02
Minimum dielectric breakdown voltage (V)	7	7	7	7	7	7	7	7	7	7	81	0.08
MTBF	7	7	7	7	7	7	7	7	7	7	81	0.08
Input sensitivity (dB μ V)	7	7	7	7	7	7	7	7	7	7	54	0.05
Video frequency bandwidth (MHz)	7	7	7	7	7	7	7	7	7	7	27	0.03
Video S/N (dB)	7	7	7	7	7	7	7	7	7	7	81	0.08
Total harmonic distortion (%)	7	7	7	7	7	7	7	7	7	7	81	0.08
Audio S/N (dB)	7	7	7	7	7	7	7	7	7	7	81	0.08
Prioritization of desired qualities											Score	Normalized score

Sound quality	9	9	9	9	9	9	9	9	9	9	9	9
Image quality	9	9	9	9	9	9	9	9	9	9	9	9
Reliability	9	9	9	9	9	9	9	9	9	9	9	9
Maintenance is easy	7	7	7	7	7	7	7	7	7	7	7	7
Software development is easy	7	7	7	7	7	7	7	7	7	7	7	7
Development cycle is short	7	7	7	7	7	7	7	7	7	7	7	7
Cost of manufacturing set is low	7	7	7	7	7	7	7	7	7	7	7	7
Low interference	4	4	4	4	4	4	4	4	4	4	4	4
Low electrical power consumption	4	4	4	4	4	4	4	4	4	4	4	4
Many functions	4	4	4	4	4	4	4	4	4	4	4	4
Text shape	4	4	4	4	4	4	4	4	4	4	4	4
Low design cost	4	4	4	4	4	4	4	4	4	4	4	4

Weight of each index ~

FIG.15

15/20

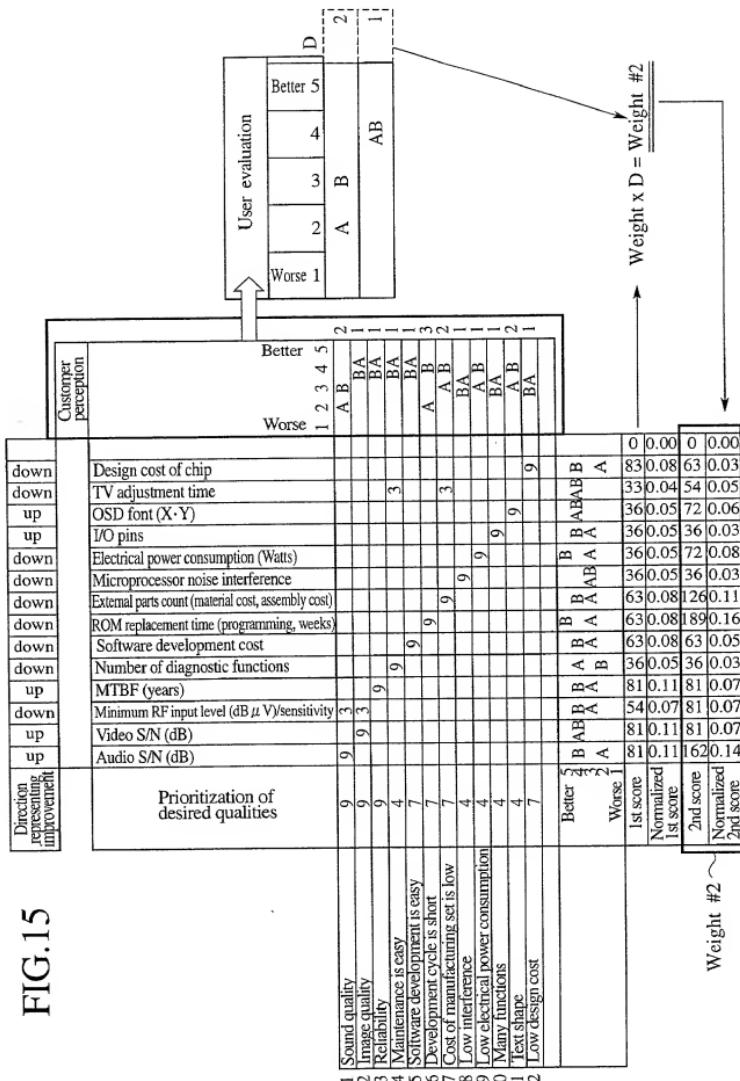


FIG.16

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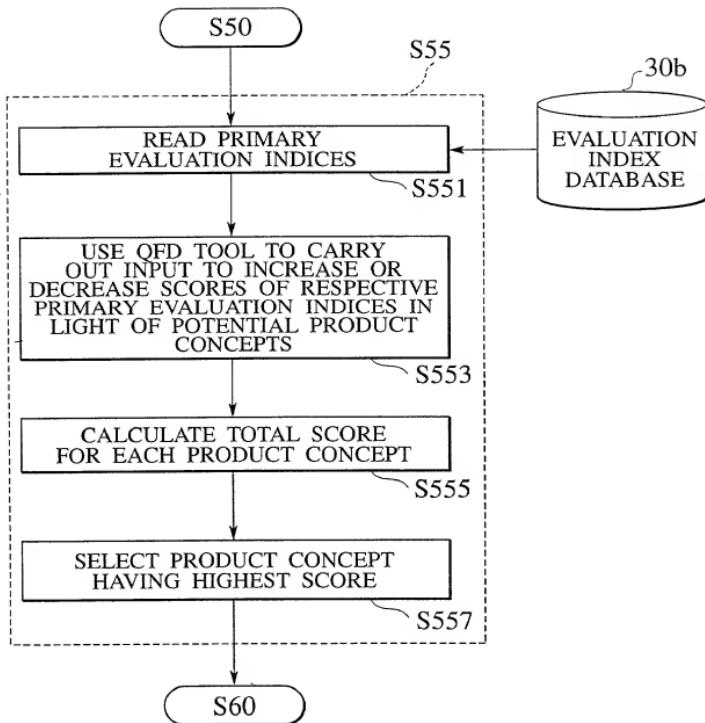


FIG.17

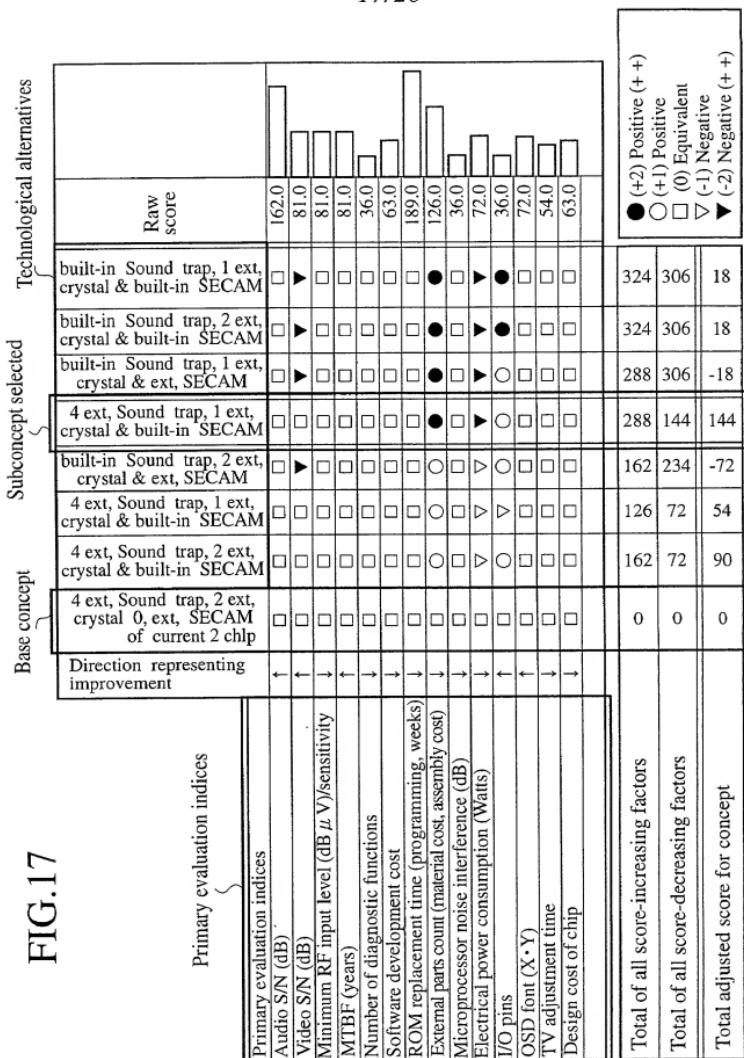


FIG.18A

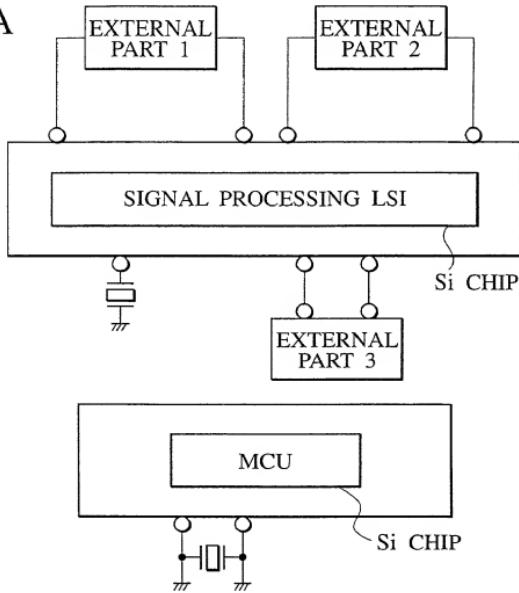


FIG.18B

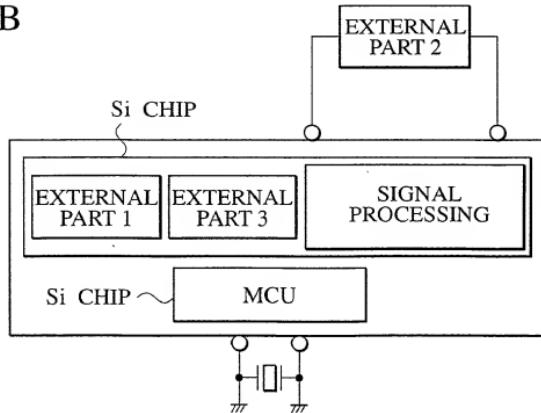


FIG.19

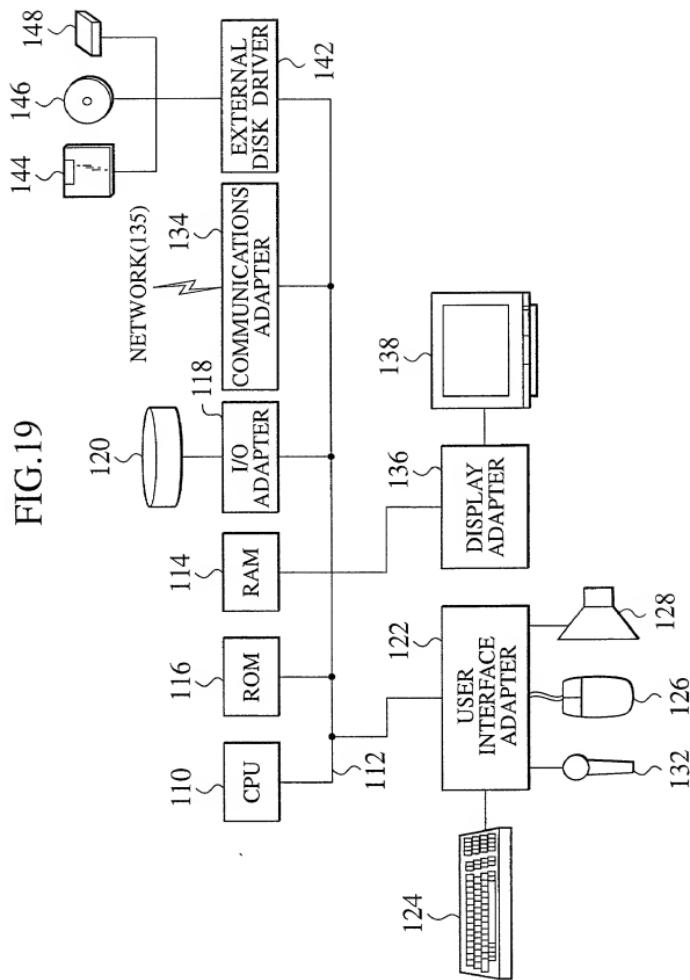


FIG.20

